

## **SECTION II**

### **PURPOSE OF THIS STUDY**



## **2. PURPOSE OF THIS STUDY**

The main objectives of this project are:

- Use airflow modeling to evaluate the effects of the following parameters on minimizing the risk from airborne organism in isolation rooms:
  - Ventilation flow rate
  - Supply temperature
  - Types of Ventilation system
  - Baseboard heating
  - Pressurization of the room
  - Location of UV fixture
  - Power of the UV output
  
- Assess the effectiveness of:
  - Removing bacteria via the ventilation system
  - Killing bacteria with U-V.
  
- Provide an architectural/engineering tool for good design practice that is generally applicable to conventional isolation room use